

FIG. 1

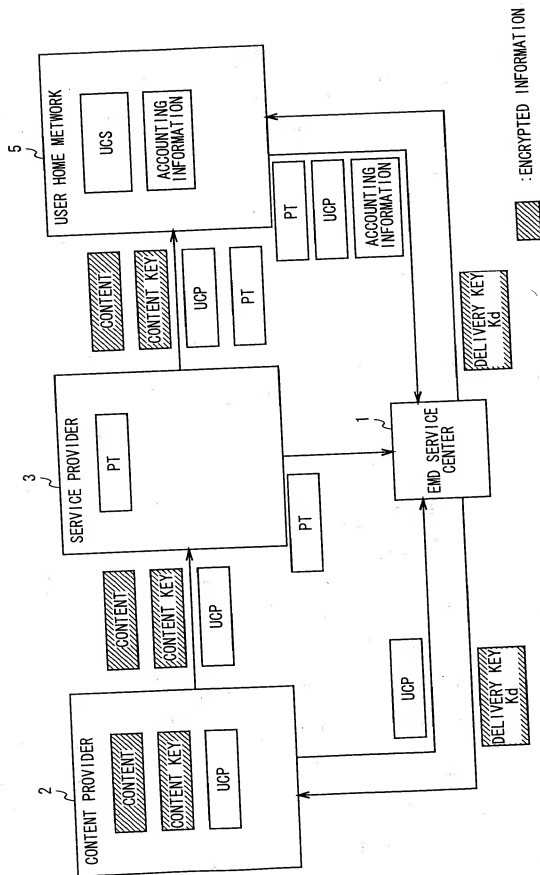


FIG. 2

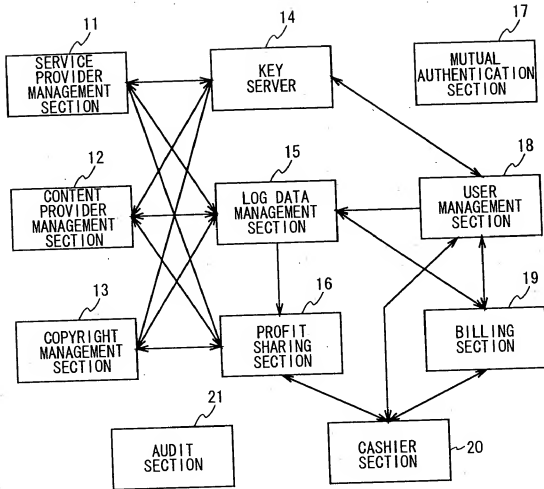
EMD SERVICE CENTER 1

FIG. 3



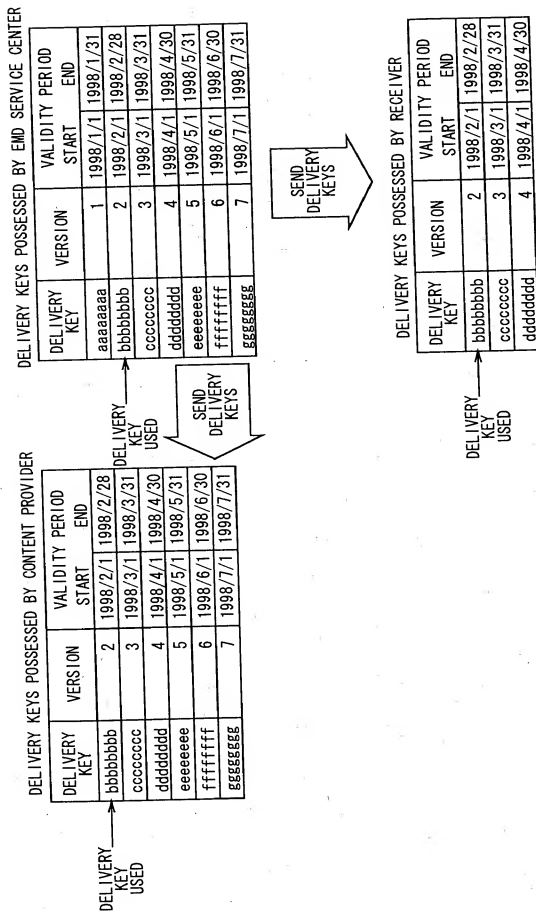


FIG. 5

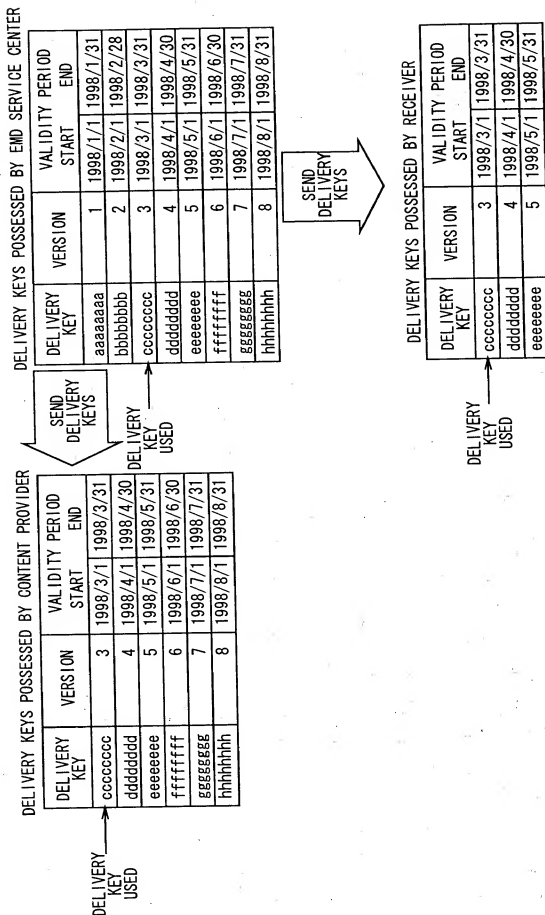
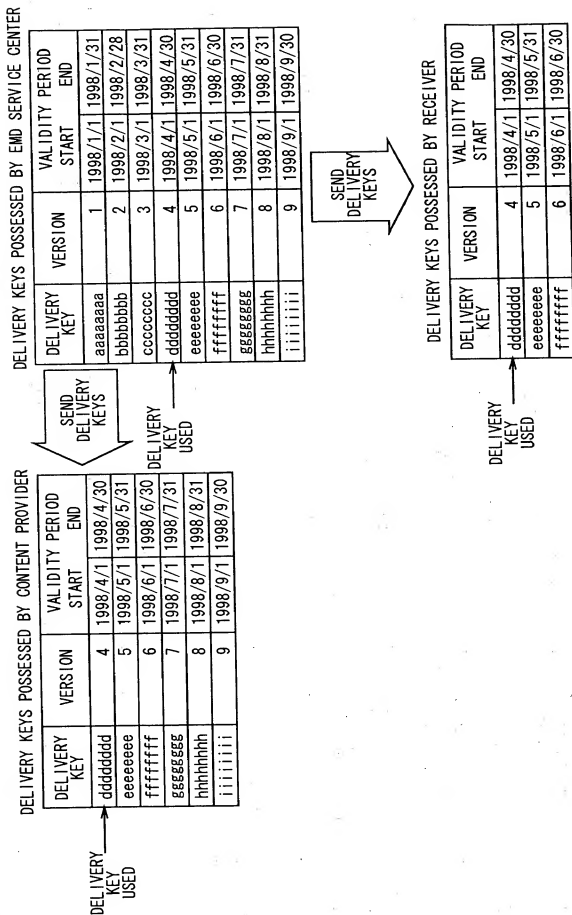
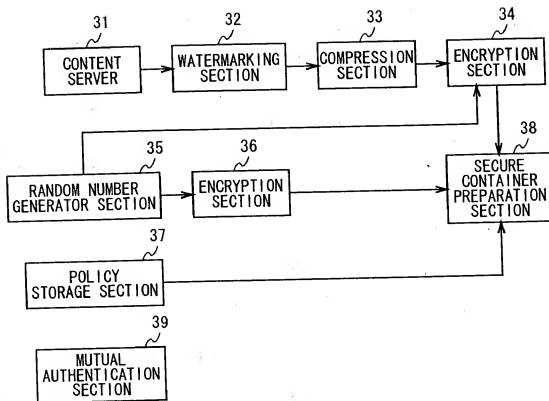


FIG. 6





CONTENT PROVIDER 2

FIG. 8

CONTENT ID	ID OF CONTENT A
CONTENT PROVIDER ID	ID OF CONTENT PROVIDER 2
UCP ID	ID OF ucPA
ucP VALIDITY	VALIDITY PERIOD OF ucPA
USAGE CONDITIONS 10	USER 200 POINTS OR HIGHER CONDITIONS 10 EQUIPMENT NO CONDITION CONDITIONS 10 ID 11 ID OF USAGE DETAILS 11 PURCHASE AND REPRODUCE TYPE 11 PARAMETER 11 CONTROL TRANSFER PERMISSION INFORMATION 11 x x x x PERMITTED
USAGE DETAILS 11	ID OF USAGE DETAILS 12 FIRST-GENERATION DUPLICATE TYPE 12 PARAMETER 12 CONTROL TRANSFER PERMISSION INFORMATION 12 NOT PERMITTED
USAGE DETAILS 12	ID OF USAGE DETAILS 13 LIMITED-TIME REPRODUCTION TYPE 13 PARAMETER 13 CONTROL TRANSFER PERMISSION INFORMATION 13 NOT PERMITTED
USAGE DETAILS 13	ID OF USAGE DETAILS 14 Pay Per Copy 5 DUPLICATES FIVE TIMES TYPE 14 PARAMETER 14 CONTROL TRANSFER PERMISSION INFORMATION 14 NOT PERMITTED
USAGE DETAILS 14	ucPA

A

CONTENT ID	ID OF CONTENT A
CONTENT PROVIDER ID	ID OF CONTENT PROVIDER 2
UCP ID	ID OF ucPB
ucP VALIDITY	VALIDITY PERIOD OF ucPB
USAGE DETAILS 20	USER 200 POINTS OR LOWER CONDITIONS 20 EQUIPMENT NO CONDITION CONDITIONS 20 ID 21 ID OF USAGE DETAILS 21 TYPE 21 Pay Per Play 4 PARAMETER 21 CONTROL TRANSFER PERMISSION INFORMATION 21 NOT PERMITTED
USAGE DETAILS 21	ID 22 ID OF USAGE DETAILS 22 PARAMETER 22 Pay Per Copy 2 PARAMETER 22 DUPLICATES TWO TIMES CONTROL TRANSFER PERMISSION INFORMATION 22 NOT PERMITTED
USAGE DETAILS 22	ucPB

B

FIG. 9

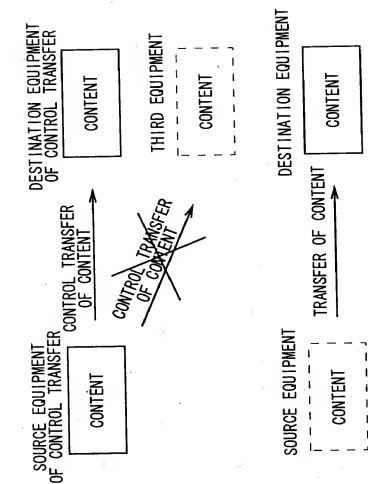


FIG. 10

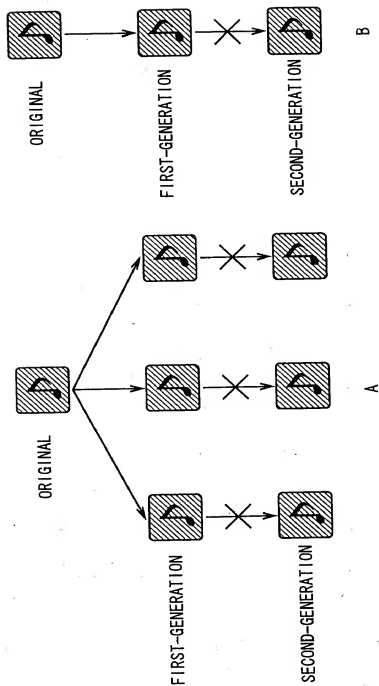


FIG. 11

A

SERVICE CODE	INDICATION
0000h	NO CONDITION
0001h TO 00FFh	WITH CONDITIONS FOR EQUIPMENT
0100h TO 01FFh	WITH CONDITIONS FOR SEX
0200h TO 02FFh	WITH CONDITIONS FOR AGE
0300h TO 7FFFh	WITH OTHER CONDITIONS
8000h TO FFFFh	WITH CONDITIONS FOR USE POINT

B

CONDITION CODE	INDICATION
00h	NO CONDITION
01h	=
02h	≠
03h	< (SMALLER)
04h	> (LARGER)
05h	≡ (EQUAL OR SMALLER)
06h	≡ (EQUAL OF LARGER)
07h TO FFh	FREE

FIG. 12

A

USER CONDITIONS 10	SERVICE CODE	VALUE CODE	CONDITION CODE
	$80 \times \times h$	0000C8h	06h
EQUIPMENT CONDITIONS 10	SERVICE CODE	VALUE CODE	CONDITION CODE
	0000h	FFFFFFh	00h

USAGE CONDITIONS 10 OF ucPA

B

USER CONDITIONS 20	SERVICE CODE	VALUE CODE	CONDITION CODE
	$80 \times \times h$	0000C8h	03h
EQUIPMENT CONDITIONS 20	SERVICE CODE	VALUE CODE	CONDITION CODE
	0000h	FFFFFFh	00h

USAGE CONDITIONS 20 OF ucPB

FIG. 13

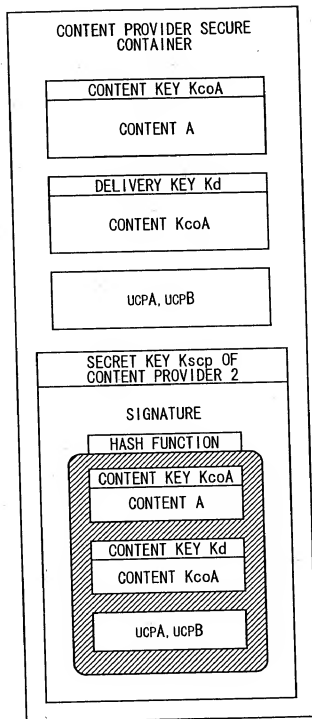


FIG. 14



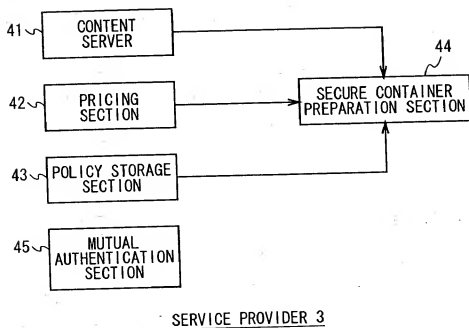


FIG. 16

CONTENT ID	ID OF CONTENT A	CONTENT ID	ID OF CONTENT A
CONTENT PROVIDER ID	ID OF CONTENT PROVIDER 2	CONTENT PROVIDER ID	ID OF CONTENT PROVIDER 2
UCP ID	ID OF UCP A	UCP ID	ID OF UCP A
UCP VALIDITY PERIOD	VALIDITY PERIOD OF UCPA	UCP VALIDITY PERIOD	VALIDITY PERIOD OF UCPA
SERVICE PROVIDER ID	ID OF SERVICE PROVIDER 3	SERVICE PROVIDER ID	ID OF SERVICE PROVIDER 3
PT ID	ID OF PTA-1	PT ID	ID OF PTA-2
PT VALIDITY PERIOD	VALIDITY PERIOD OF PTA-1	PT VALIDITY PERIOD	VALIDITY PERIOD OF PTA-2
PRICING CONDITIONS 10	USER CONDITIONS 10	PRICING CONDITIONS 20	USER CONDITIONS 20
			EQUIPMENT CONDITIONS 20
PRICE 11	2000YEN	PRICE 21	1000YEN
PRICE 12	600YEN	PRICE 22	300YEN
PRICE 13	100YEN	PRICE 23	50YEN
PRICE 14	300YEN	PRICE 24	150YEN

PTA-1

PTA-2

FIG. 17

A

USER CONDITIONS 10	SERVICE CODE	VALUE CODE	CONDITION CODE
	01 x h	000000h	01h
EQUIPMENT CONDITIONS 10	SERVICE CODE	VALUE CODE	CONDITION CODE
	0000h	FFFFFFh	00h

PRICING CONDITIONS 10 OF pTA-1

B

USER CONDITIONS 20	SERVICE CODE	VALUE CODE	CONDITION CODE
	01 x h	000001h	01h
EQUIPMENT CONDITIONS 20	SERVICE CODE	VALUE CODE	CONDITION CODE
	0000h	FFFFFFh	00h

PRICING CONDITIONS 20 OF pTA-2

FIG. 18

CONTENT ID	ID OF CONTENT A
CONTENT PROVIDER ID	ID OF CONTENT PROVIDER 2
UCP ID	ID OF ucpB
SERVICE PROVIDER ID	ID OF SERVICE PROVIDER 3
PT ID	ID OF pTB-2
PT VALIDITY PERIOD	VALIDITY PERIOD OF pTB-2
PRICING CONDITIONS 40	USER CONDITIONS 40
	NO EQUIPMENT CONDITIONS 40
PRICE 41	50YEN
PRICE 42	150YEN

pTB-2

B

CONTENT ID	ID OF CONTENT A
CONTENT PROVIDER ID	ID OF CONTENT PROVIDER 2
UCP ID	ID OF ucp B
SERVICE PROVIDER ID	ID OF SERVICE PROVIDER 3
PT ID	ID OF pTB-1
PT VALIDITY PERIOD	VALIDITY PERIOD OF pTB-1
PRICING CONDITIONS 30	USER CONDITIONS 30
	NO EQUIPMENT CONDITIONS 30
PRICE 31	100YEN
PRICE 32	300YEN

pTB-1

A

FIG. 19

A

USER CONDITIONS 30	SERVICE CODE	VALUE CODE	CONDITION CODE
	0000h	FFFFFFh	00h
EQUIPMENT CONDITIONS 30	SERVICE CODE	VALUE CODE	CONDITION CODE
	00 × × h	000064h	03h

PRICING CONDITIONS 30 OF PTB-1

B

USER CONDITIONS 40	SERVICE CODE	VALUE CODE	CONDITION CODE
	0000h	FFFFFFh	00h
EQUIPMENT CONDITIONS 40	SERVICE CODE	VALUE CODE	CONDITION CODE
	00 × × h	000064h	06h

PRICING CONDITIONS 40 OF PTB-2

FIG. 20

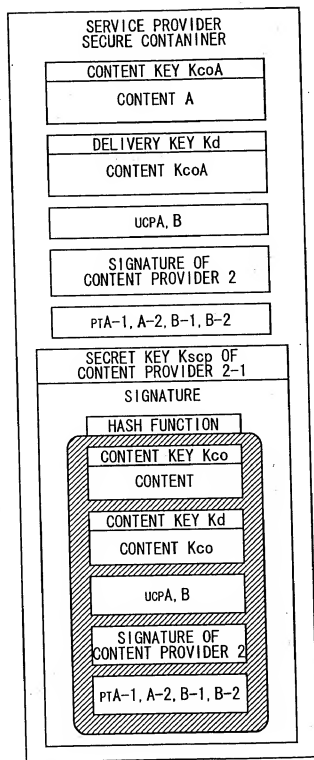


FIG. 21

AUTHENTICATION CERTIFICATE OF
SERVICE PROVIDER 3

VERSION NUMBER OF
AUTHENTICATION CERTIFICATE

SERIAL NUMBER OF AUTHENTICATION
CERTIFICATE ASSIGNED BY
CERTIFICATION AGENCY

ALGORITHM AND PARAMETERS
USED FOR SIGNATURE

NAME OF CERTIFICATION AGENCY

VALIDITY PERIOD OF
AUTHENTICATION CERTIFICATE

NAME(ID) OF SERVICE PROVIDER 3

PUBLIC KEY K_{psp} OF SERVICE
PROVIDER 3

SECRET KEY K_{sca} OF CERTIFICATION AGENCY

SIGNATURE

HASH FUNCTION

VERSION NUMBER OF
AUTHENTICATION CERTIFICATE

SERIAL NUMBER OF AUTHENTICATION
CERTIFICATE ASSIGNED BY
CERTIFICATION AGENCY

ALGORITHM AND PARAMETERS USED
FOR SIGNATURE

NAME OF CERTIFICATION AGENCY

VALIDITY PERIOD OF
AUTHENTICATION CERTIFICATE

NAME(ID) OF SERVICE PROVIDER 3

PUBLIC KEY K_{psp} OF SERVICE
PROVIDER 3

FIG. 22

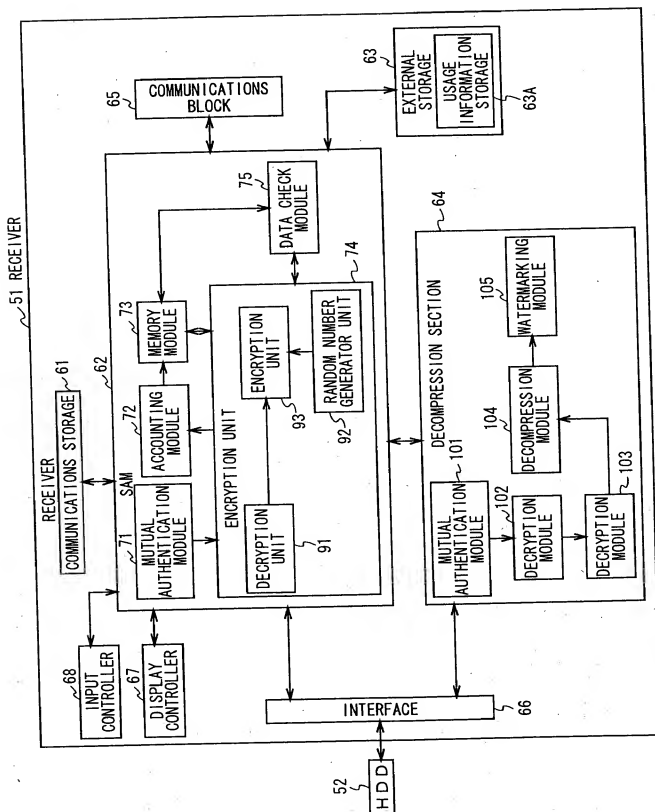


FIG. 23

AUTHENTICATION CERTIFICATE OF SAM 62

VERSION NUMBER OF
AUTHENTICATION CERTIFICATE

SERIAL NUMBER OF AUTHENTICATION
CERTIFICATE ASSIGNED BY
CERTIFICATION AGENCY

ALGORITHM AND PARAMETERS USED
FOR SIGNATURE

NAME OF CERTIFICATION AGENCY

VALIDITY PERIOD OF AUTHENTICATION
CERTIFICATE

NAME(ID) OF SAM 62

PUBLIC KEY Kpu OF SAM 62

SECRET KEY Ksca OF CERTIFICATION AGENCY

SIGNATURE

HASH FUNCTION

VERSION NUMBER OF
AUTHENTICATION CERTIFICATE

SERIAL NUMBER OF AUTHENTICATION
CERTIFICATE ASSIGNED BY
CERTIFICATION AGENCY

ALGORITHM AND PARAMETERS USED
FOR SIGNATURE

NAME OF CERTIFICATION AGENCY

VALIDITY PERIOD OF AUTHENTICATION
CERTIFICATE

NAME(ID) OF SAM 62

PUBLIC KEY Kpu OF SAM 62

PARAMETER INDICATING WHETHER GIVEN
SAM IS SUBORDINATE TO OTHER SAM

FIG. 24

CONTENT ID		ID OF CONTENT A
CONTENT PROVIDER ID		ID OF CONTENT PROVIDER 2
UCP ID		ID OF ucPA
UCP VALIDITY PERIOD		VALIDITY PERIOD OF ucPA
SERVICE PROVIDER ID		ID OF SERVICE PROVIDER 3
PT ID		ID OF pTA-1
PT VALIDITY PERIOD		VALIDITY PERIOD OF pTA-1
UCS ID		ID OF uCSA
SAM ID		ID OF SAM62
USER ID		ID OF USER F
USAGE DETAILS	ID	ID OF USAGE DETAILS 13
	TYPE	LIMITED-TIME REPRODUCTION
	PARAMETER	x x x
	CONTROL TRANSFER STATUS	SOURCE: ID OF SAM62, DESTINATION: ID OF SAM62
USAGE HISTORY		x x x

uCSA

FIG. 25

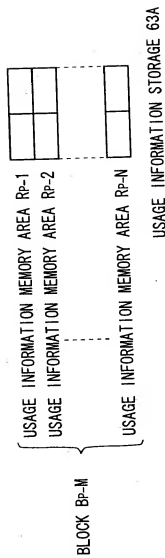
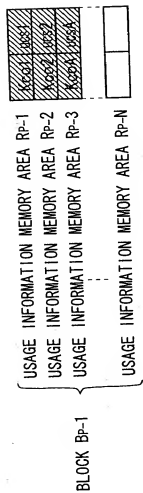


FIG. 26

CONTENT ID		ID OF CONTENT A
CONTENT PROVIDER ID		ID OF CONTENT PROVIDER 2
UCP ID		ID OF ucpA
UCP VALIDITY PERIOD		VALIDITY PERIOD OF ucpA
SERVICE PROVIDER ID		ID OF SERVICE PROVIDER 3
PT ID		ID OF pTA-1
PT VALIDITY PERIOD		VALIDITY PERIOD OF pTA-1
UCS ID		ID OF ucSA
SAM ID		ID OF SAM62
USER ID		ID OF USER F
USAGE DETAILS	ID	ID OF USAGE DETAILS 13
	TYPE	PURCHASE AND REPRODUCE
	PARAMETER	x x x
	CONTROL TRANSFER STATUS	SOURCE: ID OF SAM62, DESTINATION: ID OF SAM62
ACCOUNTING HISTORY		x x x

ACCOUNTING INFORMATION A

FIG. 27

PUBLIC KEY Kpu OF SAM62		
SECRET KEY Ksu OF SAM62		
PUBLIC KEY Kpesc OF THE EMD SERVICE CENTER 1		
PUBLIC KEY Kpca OF THE CERTIFICATION AGENCY		
SAVE KEY Ksave		
THREE MONTHS' DELIVERY KEYS Kd		
⋮		
AUTHENTICATION CERTIFICATE OF SAM62		
REFERENCE INFORMATION 51		
ACCOUNTING INFORMATION		
⋮		
VERIFICATION VALUES Hp-1	VERIFICATION VALUES Hp-2
	 VERIFICATION VALUES Hp-M

FIG. 28

SAM ID		ID OF SAM62
EQUIPMENT NUMBER		EQUIPMENT NUMBER(100) OF RECEIVERS 51
SETTLEMENT ID		SETTLEMENT ID OF USER
CHARGE LIMIT		FORMAL REGISTRATION
ACCOUNT-SETTLING USER INFORMATION	NAME	NAME OF USER
	ADDRESS	ADDRESS OF USER
	PHONE NUMBER	PHONE NUMBER OF USER
	SETTLEMENT INSTITUTION INFORMATION	SETTLEMENT INSTITUTION INFORMATION OF USER
	DATA OF BIRTH	DATE OF BIRTH OF USER
	AGE	AGE OF USER(21 YEARS)
	SEX	SEX OF USER(MALE)
	USER ID	USER ID OF USER
PASSWORD		PASSWORD OF USER

USE POINT INFORMATION	USE POINT INFORMATION OF RECEIVERS 51
--------------------------	--

REFERENCE INFORMATION 51

FIG. 29

LIST SECTION

SAM ID	USER ID	PURCHASING	ACCOUNTING	EQUIPMENT BILLED	MASTER EQUIPMENT	STATUS FLAG	SIGNATURE TO CONDITIONS	SIGNATURE TO REGISTRATION LIST
ID OF SAM62	USER ID	YES	YES	ID OF SAM62	NONE	NO RESTRICTION	x x x x	x x x x
ID OF SAM212	USER ID	YES	NO	ID OF SAM62	NONE	NO RESTRICTION	x x x x	

REGISTRATION
CONDITIONS
OF RECEIVER 51REGISTRATION
CONDITIONS
OF RECEIVER 201

SAM ID: ID OF SAM62	ID OF SAM62
VALIDITY PERIOD	x x x x
VERSION NUMBER	x x x x
NUMBER OF EQUIPMENT CONNECTED	2

SAM INFORMATION SECTION

REGISTRATION LIST OF RECEIVER 51

FIG. 30

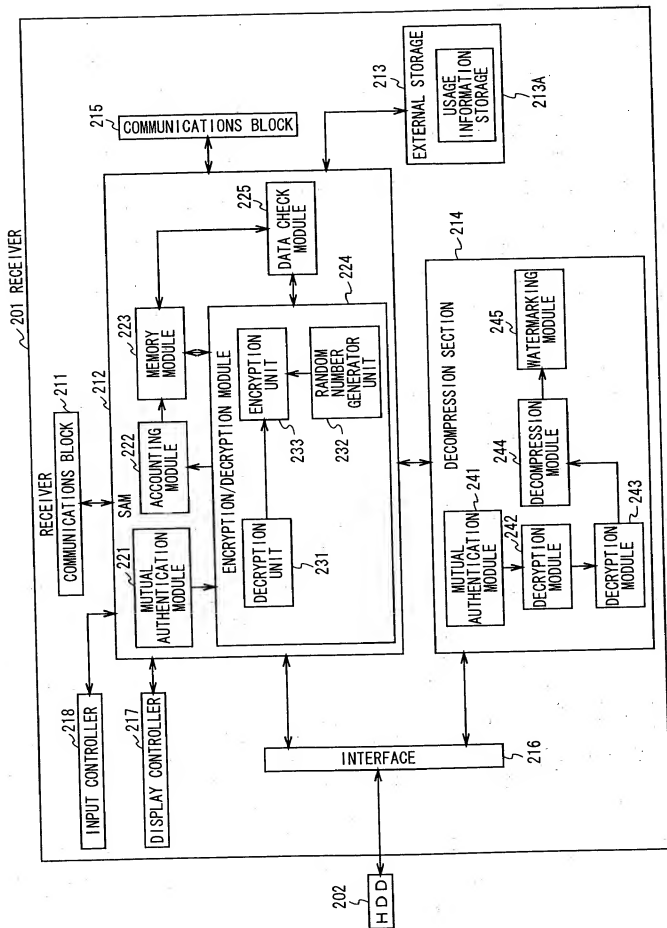


FIG. 31

LIST SECTION

SAM ID	USER ID	PURCHASING	ACCOUNTING	EQUIPMENT BILLED	MASTER EQUIPMENT	STATUS FLAG	SIGNATURE TO CONDITIONS	SIGNATURE TO REGISTRATION LIST
ID OF SAM62	USER ID	YES	YES	ID OF SAM62	NONE	NO RESTRICTION	x x x x	x x x x
ID OF SAM212	USER ID	YES	NO	ID OF SAM62	NONE	NO RESTRICTION	x x x x	x x x x

REGISTRATION
CONDITIONS
OF RECEIVER 51REGISTRATION
CONDITIONS
OF RECEIVER 201

SAM ID: ID OF SAM62	ID OF SAM212
VALIDITY PERIOD	x x x x
VERSION NUMBER	x x x x
NUMBER OF EQUIPMENT CONNECTED	2

SAM INFORMATION SECTION

REGISTRATION LIST OF RECEIVER 201

FIG. 32

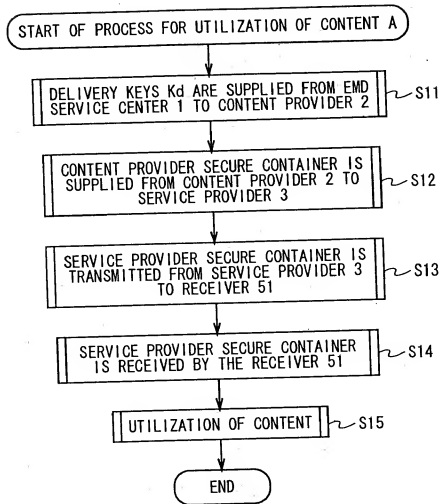


FIG. 33

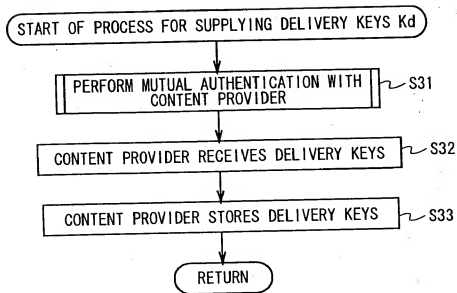


FIG. 34

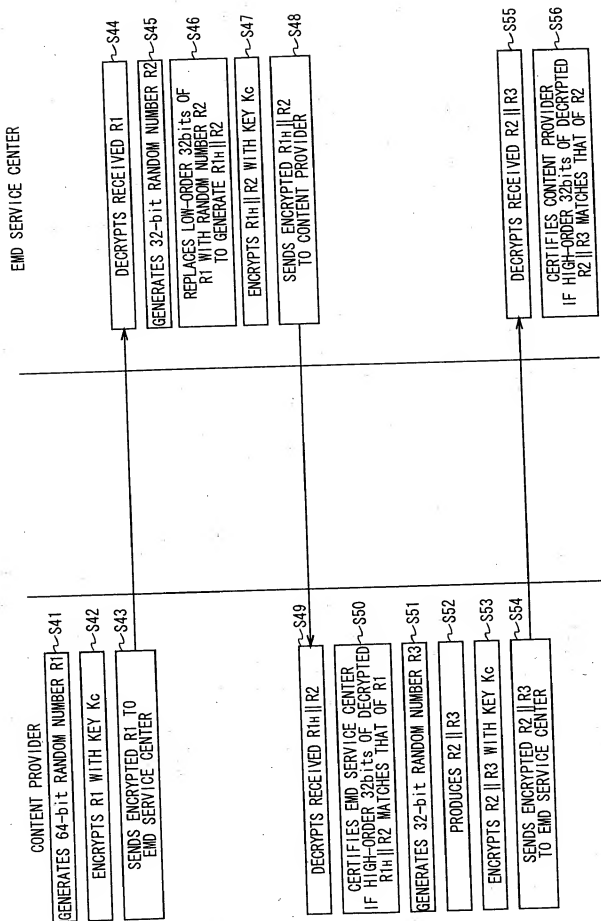


FIG. 35

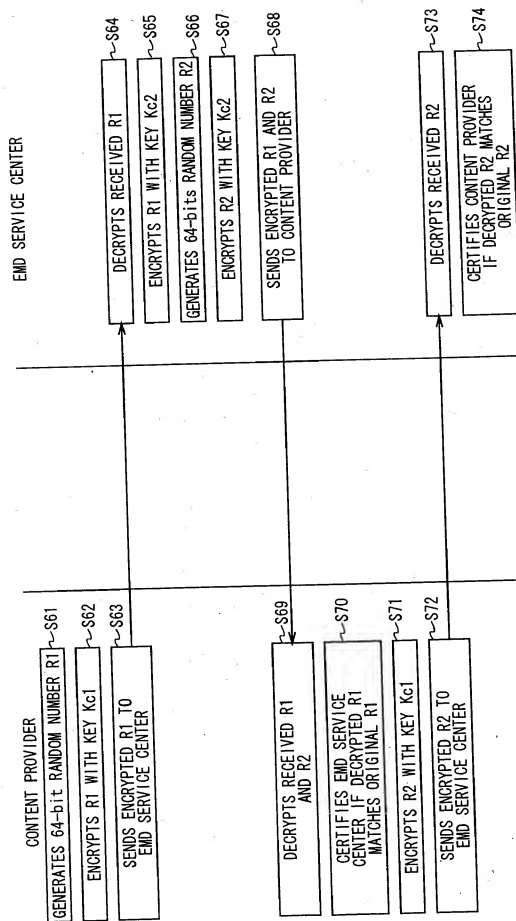
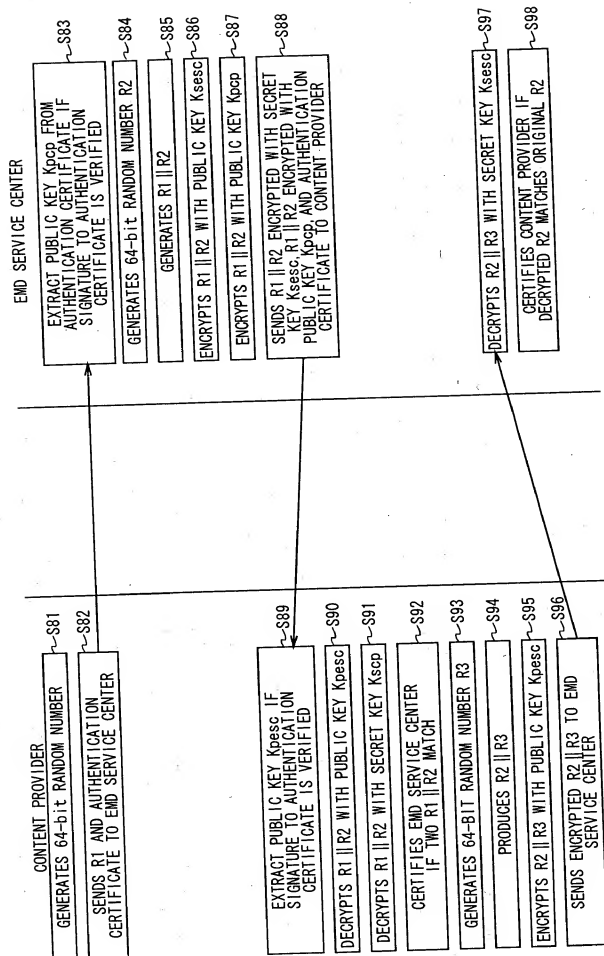


FIG. 36



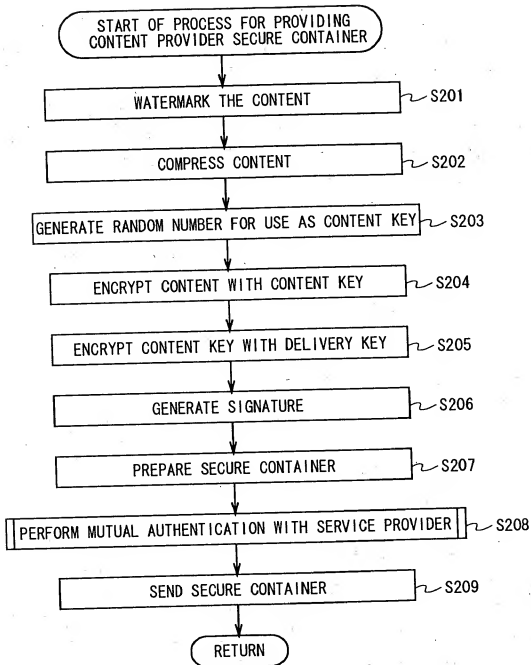


FIG. 38

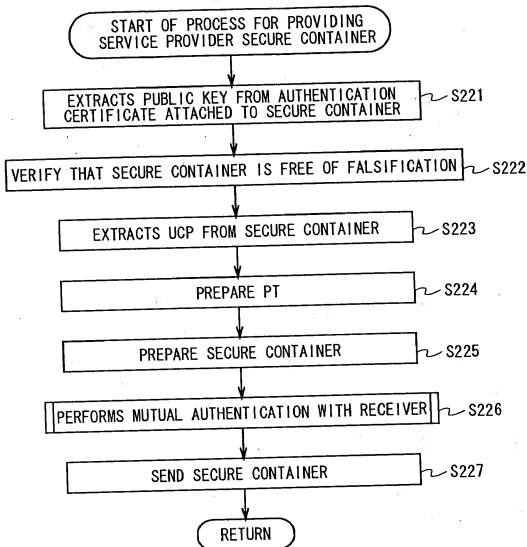


FIG. 39

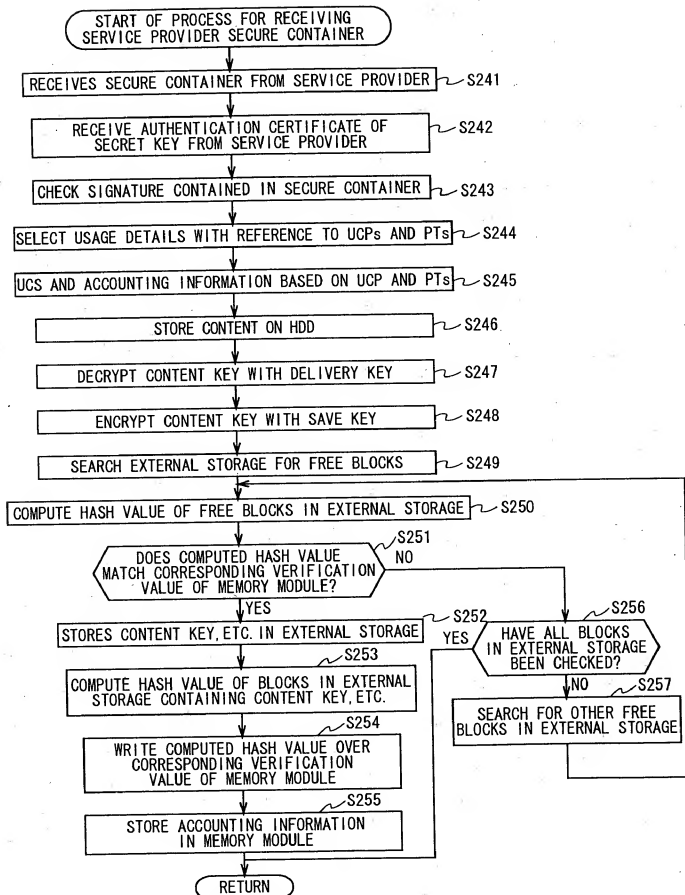
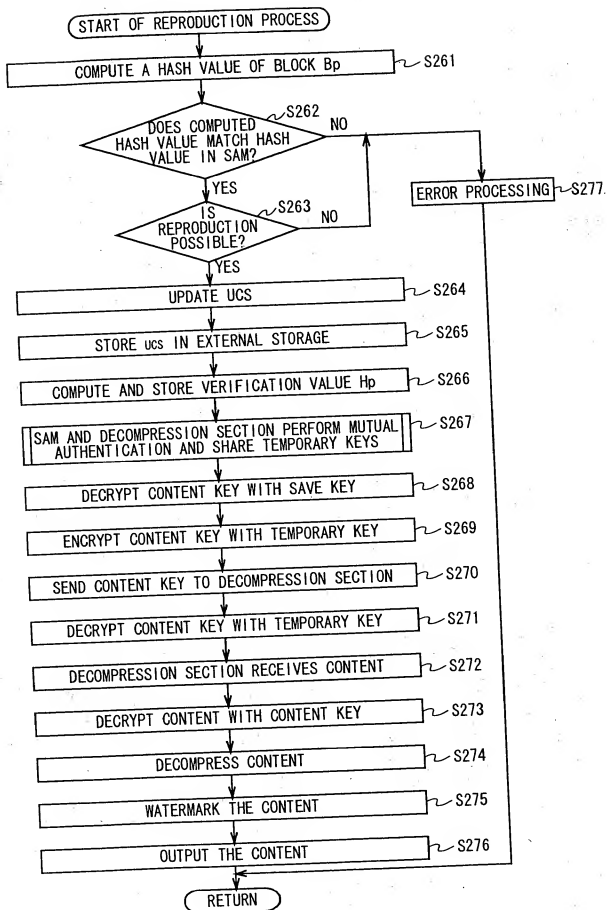


FIG. 40

FIG. 41
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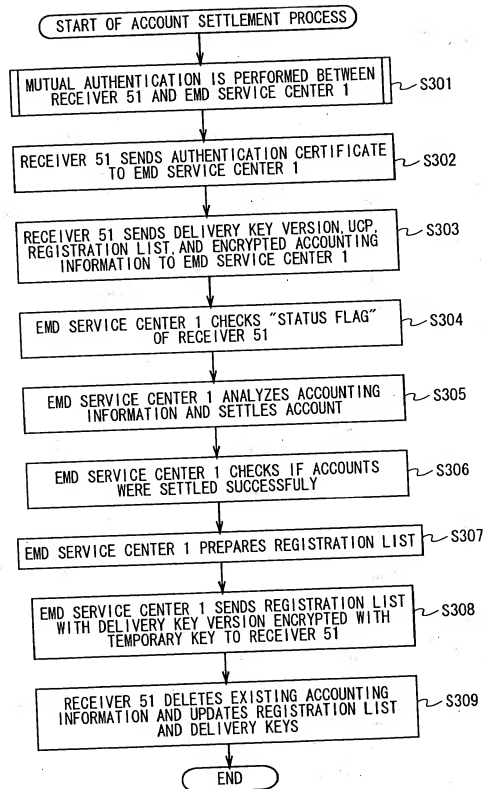


FIG. 42

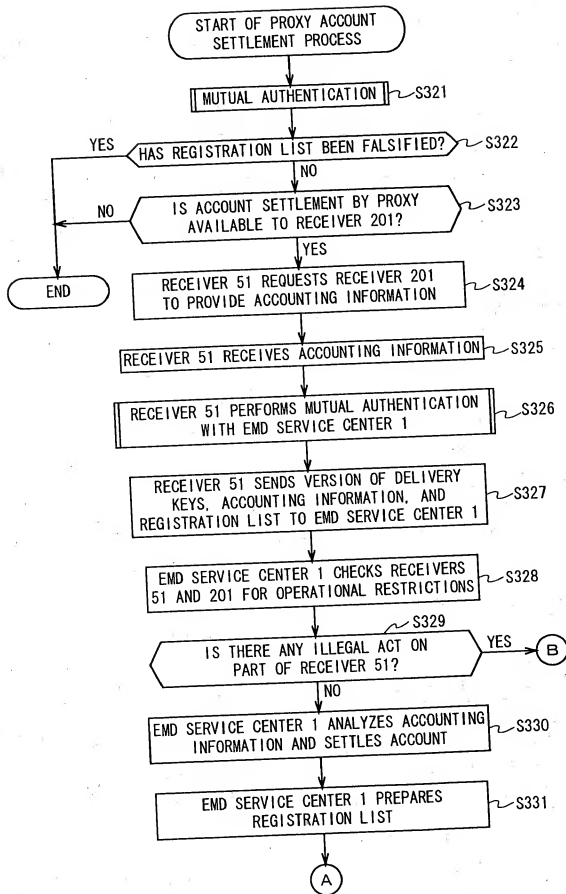


FIG. 43

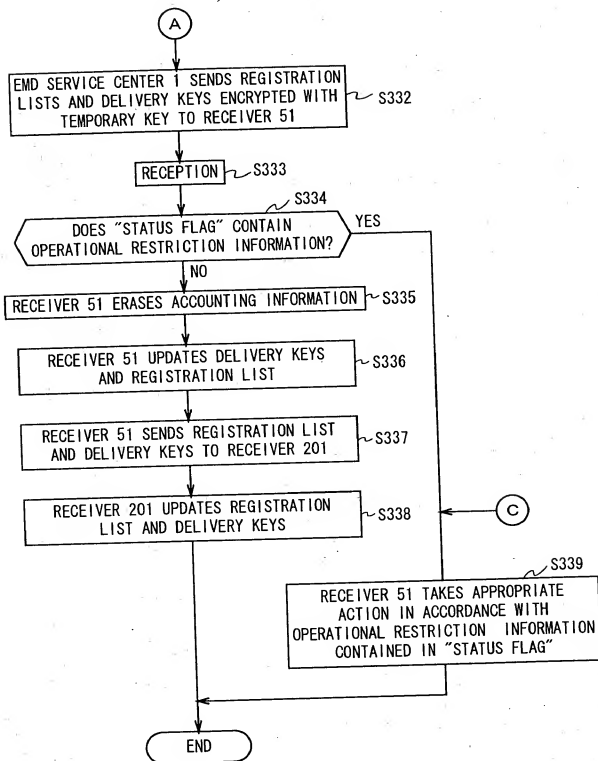


FIG. 44

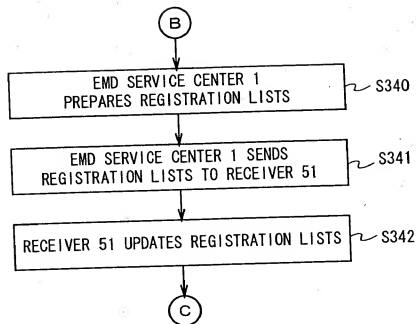


FIG. 45

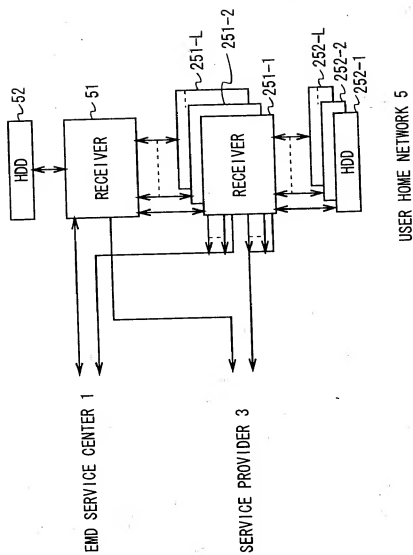


FIG. 46

LIST SECTION

SAM ID	USER ID	PURCHASING	ACCOUNTING	EQUIPMENT BILLED	MASTER EQUIPMENT	STATUS FLAG	SIGNATURE TO CONDITIONS	SIGNATURE TO REGISTRATION LIST
ID OF SAM 62	ID OF USER	YES	YES	ID OF SAM 62	NONE	NO RESTRICTION	x x x x	x x x x
ID OF SAM	ID OF USER	YES	NO	ID OF SAM 62	NONE	NO RESTRICTION	x x x x	
ID OF SAM	ID OF USER	YES	NO	ID OF SAM 62	NONE	NO RESTRICTION	x x x x	
.....	

REGISTRATION
CONDITIONS OF
RECEIVER 51
REGISTRATION
CONDITIONS OF
RECEIVER 251-1
REGISTRATION
CONDITIONS OF
RECEIVER 251-2
.....

SAM ID	ID OF SAM 62	SAM INFORMATION SECTION	
VALIDITY PERIOD	x x x x		
VERSION NUMBER	x x x x		
NUMBER OF EQUIPMENT CONNECTED	L+1		

FIG. 47

LIST SECTION

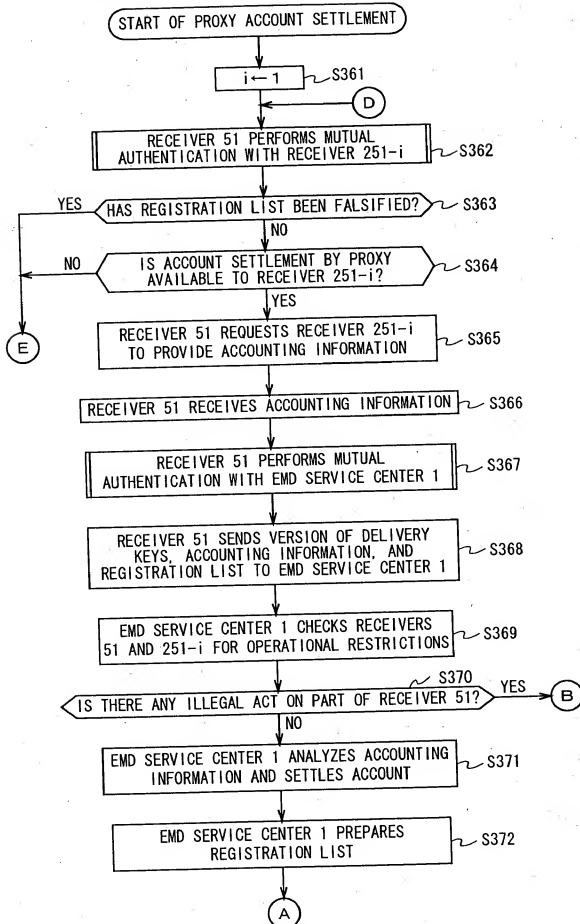
SAM ID	USER ID	PURCHASING	ACCOUNTING	EQUIPMENT BILLED	MASTER EQUIPMENT	STATUS FLAG	SIGNATURE TO CONDITIONS	SIGNATURE TO REGISTRATION LIST
ID OF SAM 62	ID OF USER	YES	YES	ID OF SAM 62	NONE	NO RESTRICTION	x x x x	x x x x
ID OF SAM	ID OF USER	YES	NO	ID OF SAM 62	NONE	NO RESTRICTION	x x x x	
ID OF SAM	ID OF USER	YES	NO	ID OF SAM 62	NONE	NO RESTRICTION	x x x x	
.....	

REGISTRATION
CONDITIONS OF
RECEIVER 51
REGISTRATION
CONDITIONS OF
RECEIVER 251-1
REGISTRATION
CONDITIONS OF
RECEIVER 251-2
.....

SAM ID	ID OF SAM OF RECEIVER 251-1	VALIDITY PERIOD	VERSION NUMBER	NUMBER OF EQUIPMENT CONNECTED
	x x x x		x x x x	2

SAM INFORMATION SECTION

FIG. 48

FIG. 49
49/65

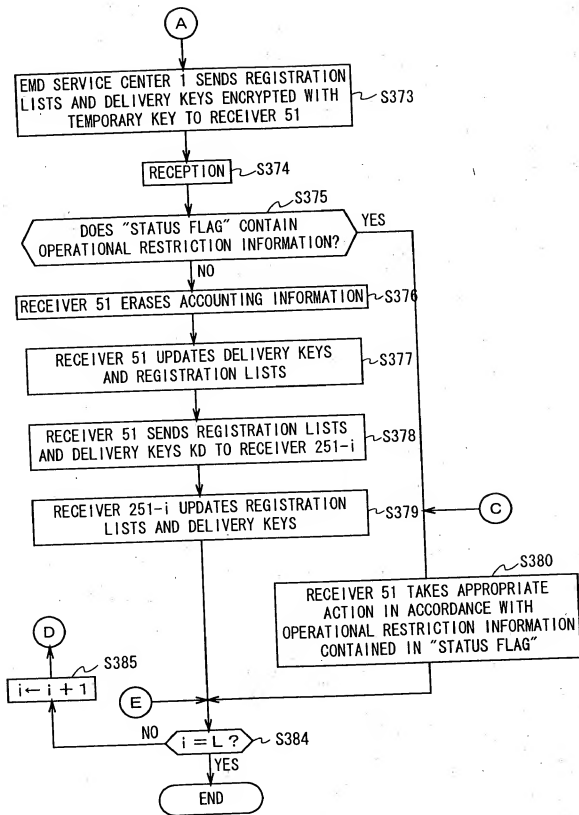


FIG. 50

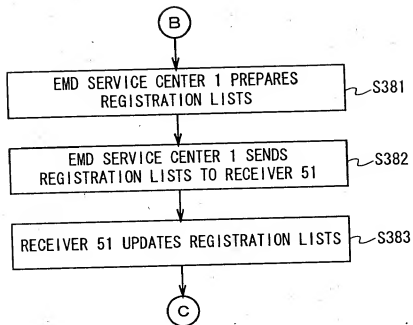
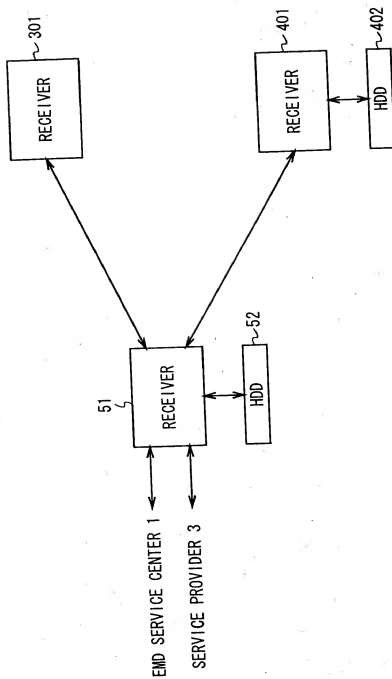


FIG. 51



USER HOME NETWORK 5

FIG. 52

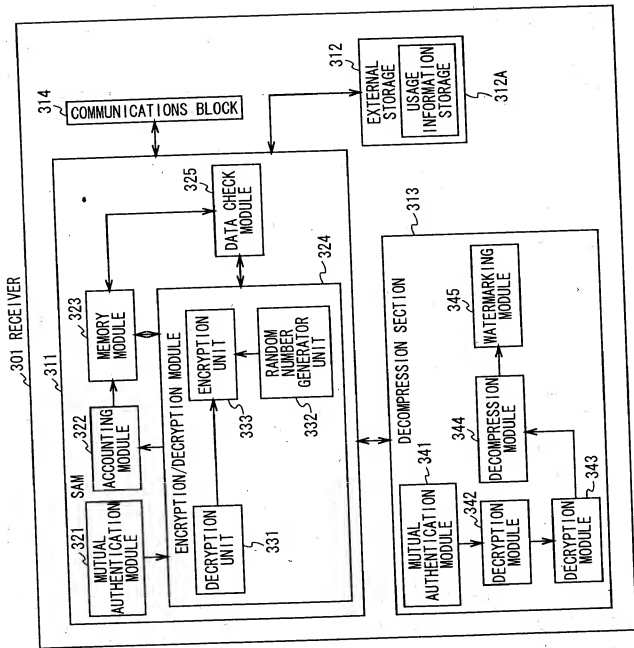


FIG. 53

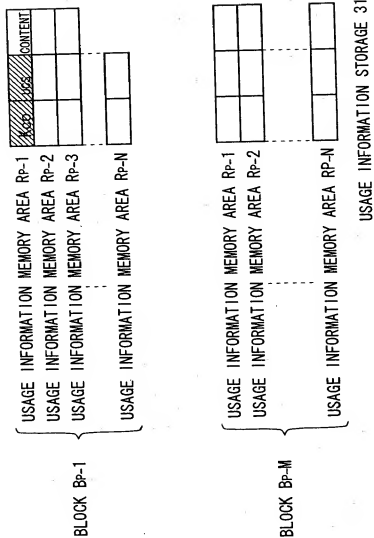


FIG. 54

LIST SECTION

SAM ID	USER ID	PURCHASING	ACCOUNTING	EQUIPMENT BILLED	MASTER EQUIPMENT	STATUS FLAG	SIGNATURE TO CONDITIONS	SIGNATURE TO REGISTRATION LIST
ID OF SAM 311	ID OF USER	NO	NO	NONE	ID OF SAM 62	NO RESTRICTION	x x x x	x x x x

REGISTRATION
CONDITIONS OF
RECEIVER 301

ID OF SAM 311

SAM ID

VALIDITY PERIOD

x x x x

VERSION NUMBER

x x x x

NUMBER OF EQUIPMENT CONNECTED

2

SAM INFORMATION SECTION

REGISTRATION LIST OF RECEIVER 301

FIG. 55

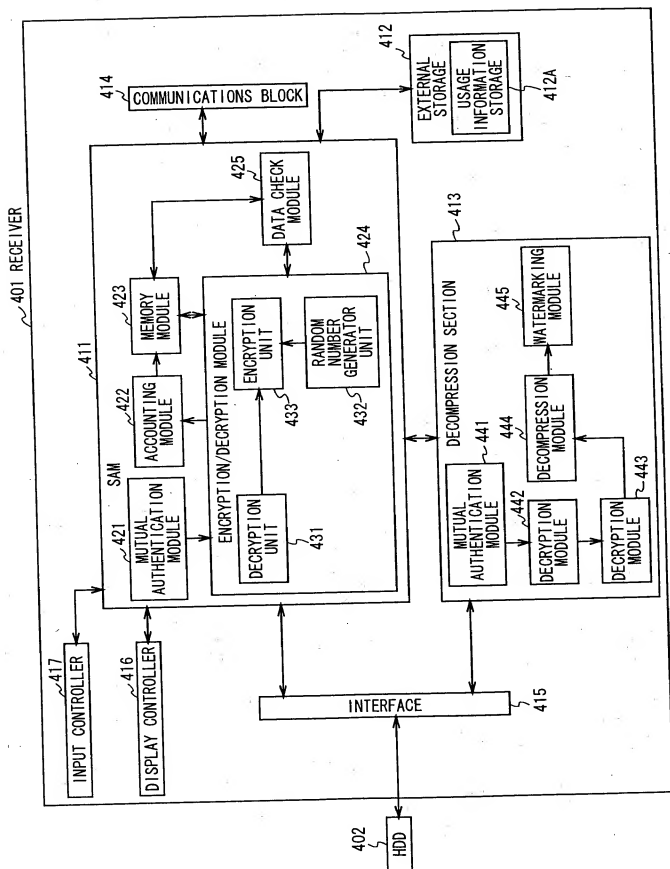


FIG. 56

LIST SECTION

SAM ID	USER ID	PURCHASING	ACQU- NTING	EQUIPMENT BILLED	MASTER EQUIPMENT	STATUS FLAG	SIGNATURE TO CONDITIONS	SIGNATURE TO REGISTRATION LIST
ID OF SAM 411	ID OF USER	NO	NO	NONE	ID OF SAM 62	NO RESTRICTION	x x x x	x x x x

REGISTRATION
CONDITIONS OF
RECEIVER 401

SAM ID	ID OF SAM 411
VALIDITY PERIOD	x x x x
VERSION NUMBER	x x x x
NUMBER OF EQUIPMENT CONNECTED	2

SAM INFORMATION SECTION

REGISTRATION LIST OF RECEIVER 401

FIG. 57

LIST SECTION

SAM ID	USER ID	PURCHASING	ACCOUNTING	EQUIPMENT BILLED	MASTER EQUIPMENT	STATUS FLAG	SIGNATURE TO CONDITIONS	SIGNATURE TO REGISTRATION LIST
ID OF SAM 62	ID OF USER	YES	YES	ID OF SAM 62	NONE	NO RESTRICTION	x x x x	x x x x
ID OF SAM 311	ID OF USER	NO	NO	NONE	ID OF SAM 62	NO RESTRICTION	x x x x	
ID OF SAM 411	ID OF USER	NO	NO	NONE	ID OF SAM 62	NO RESTRICTION	x x x x	

REGISTRATION
CONDITIONS OF
RECEIVER 51REGISTRATION
CONDITIONS OF
RECEIVER 301REGISTRATION
CONDITIONS OF
RECEIVER 401

SAM ID	ID OF SAM 62	SAM INFORMATION SECTION
VALIDITY PERIOD	x x x x	
VERSION NUMBER	x x x x	
NUMBER OF EQUIPMENT CONNECTED	3	

REGISTRATION LIST

FIG. 58

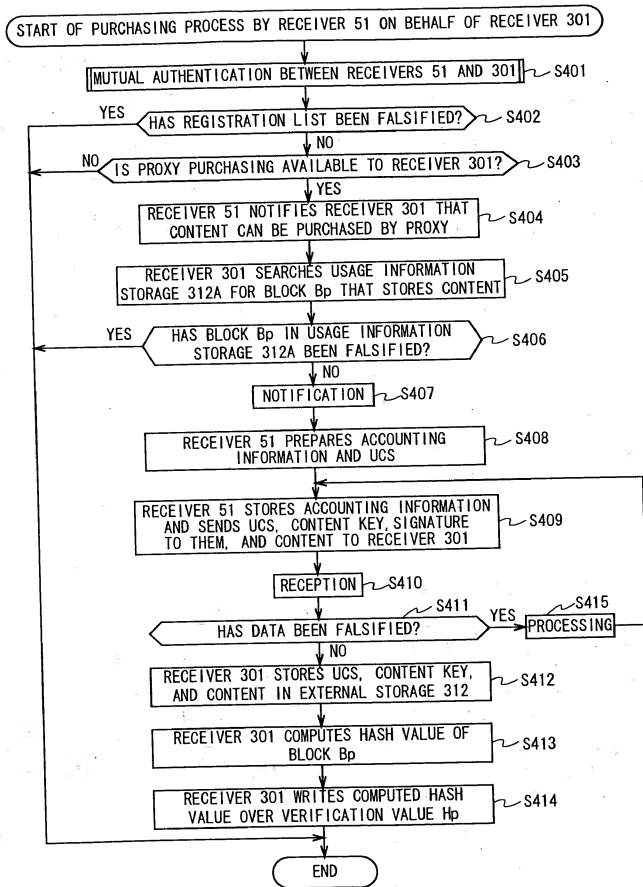
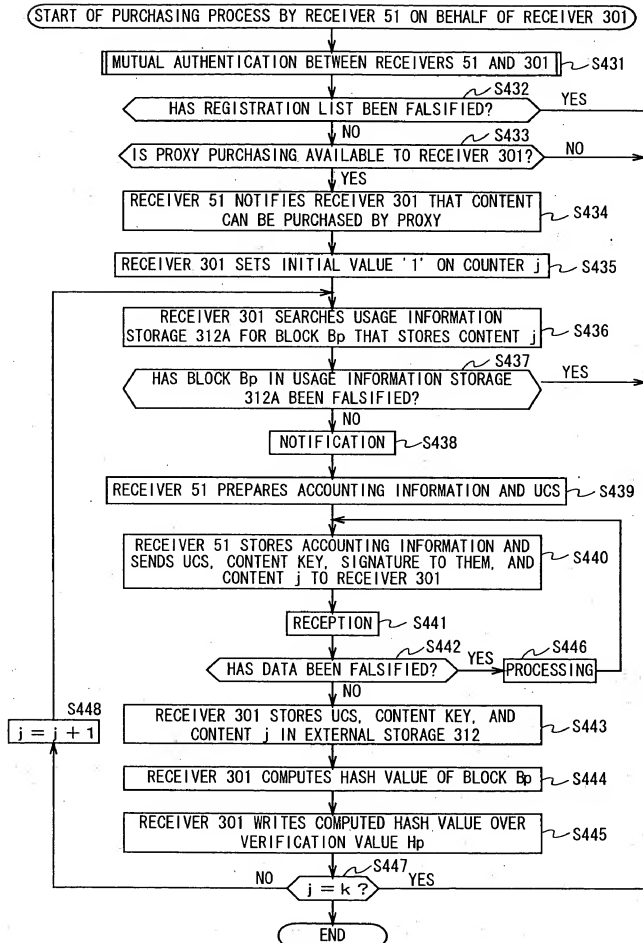


FIG. 59



START OF PURCHASING PROCESS BY RECEIVER 51 ON BEHALF OF RECEIVER 301

MUTUAL AUTHENTICATION BETWEEN RECEIVERS 51 AND 301 S461

HAS REGISTRATION LIST BEEN FALSIFIED? S462

YES

NO

IS PROXY PURCHASING AVAILABLE TO RECEIVER 301? S463

NO

YES
RECEIVER 51 REQUESTS RECEIVER 301 TO
INFORM IT OF STORAGE CAPACITY S464

RECEIVER 301 INFORMS RECEIVER 51 OF AVAILABLE SPACE S465

RECEIVER 51 INFORMS RECEIVER 301 OF CONTENT
CORRESPONDING TO STORAGE CAPACITY S466

RECEIVER 51 SEARCHES USAGE INFORMATION STORAGE
312A FOR BLOCKS B_p THAT STORE CONTENT S467

HAVE BLOCKS B_p IN USAGE INFORMATION
STORAGE 312A BEEN FALSIFIED? S468

YES

NO

NOTIFICATION S469

RECEIVER 51 PREPARES ACCOUNTING INFORMATION AND UCS S470

RECEIVER 51 STORES ACCOUNTING INFORMATION AND
SENDS UCS, CONTENT KEYS, SIGNATURE TO THEM,
AND CONTENT TO RECEIVER 301 S471

RECEPTION S472

HAS DATA BEEN FALSIFIED? S473

YES

PROCESSING S477

NO
RECEIVER 301 STORES UCS, CONTENT KEY, AND
CONTENT IN EXTERNAL STORAGE 312 S474

RECEIVER 301 COMPUTES HASH VALUES OF BLOCKS B_p S475

RECEIVER 301 WRITES COMPUTED HASH VALUES OVER
VERIFICATION VALUES H_p S476

END

FIG. 61
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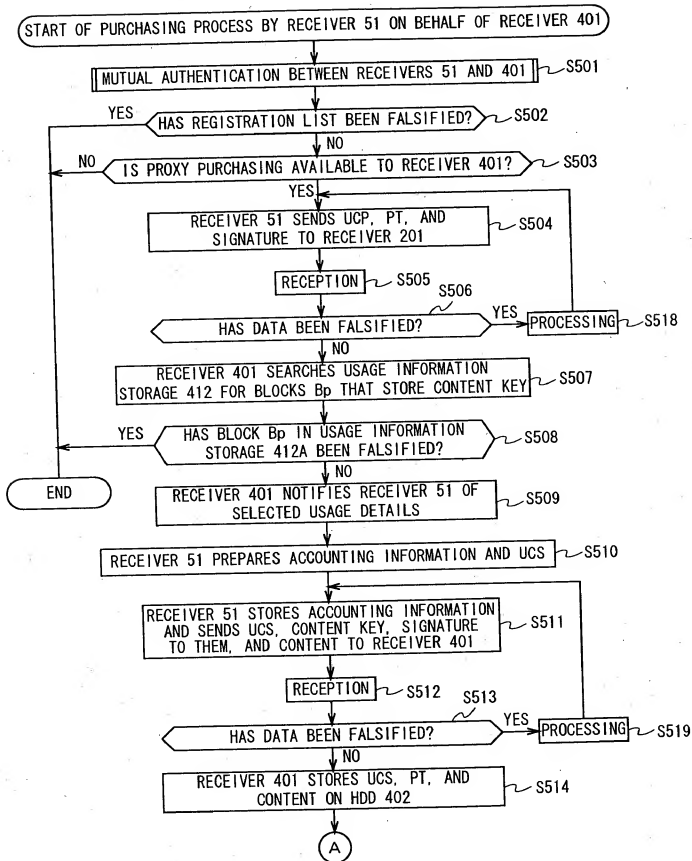


FIG. 62
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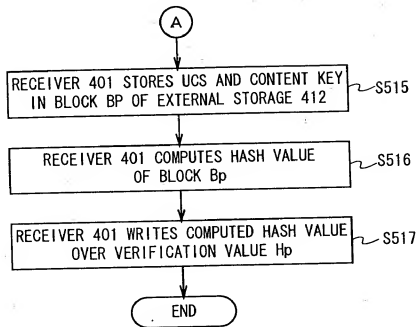


FIG. 63

Explanation of Reference Numerals

1 ... EMD service center, 2 ... content provider, 3 ... service provider, 5 ... user home network, 11 ... service provider management section, 12 ... content provider management section, 13 ... copyright management section, 14 ... key server, 15 ... log data management section, 16 ... profit-sharing section, 17 ... mutual authentication section, 18 ... user management section, 19 ... billing section, 20 ... cashier section, 21 ... audit section, 31 ... content server, 32 ... watermarking section, 33 ... compression section, 34 ... encryption section, 35 ... random number generator section, 36 ... encryption section, 37 ... policy storage section, 38 ... secure container preparation section, 39 ... mutual authentication section, 41 ... content server, 42 ... pricing section, 43 ... policy storage section, 44 ... secure container preparation section, 45 ... mutual authentication section, 51 ... receiver, 52 ... HDD, 61 ... communication block, 62 ... SAM, 63 ... external storage, 64 ... decompression section, 65 ... communication block, 66 ... interface, 67 ... display controller, 68 ... input controller, 71 ... mutual authentication module, 72 ... accounting module, 73 ... memory module, 74 ... encryption/decryption module, 75 ... data check module, 91 ... decryption unit, 92 ... random number generator unit, 93 ... encryption unit, 101 ... mutual authentication module, 102 ... decryption module, 103 ... decryption module, 104 ... decompression module, 105 ... watermarking module, 201 ... receiver, 202 ... HDD,

211 ... communication block, 212 ... SAM, 213 ... external storage,
 214 ... decompression section, 215 ... communication block, 216 ...
 interface, 217 ... display controller, 218 ... input controller, 221 ...
 mutual authentication module, 222 ... accounting module, 223 ... memory
 module, 224 ... encryption/decryption module, 225 ... data check module,
 231 ... decryption unit, 232 ... random number generator unit, 233 ...
 encryption unit, 241 ... mutual authentication module, 242 ...
 decryption module, 243 ... decryption module, 244 ... decompression
 module, 245 ... watermarking module, 301 ... receiver, 311 ... SAM,
 312 ... external storage, 313 ... decompression section, 314 ...
 communication block, 321 ... mutual authentication module, 322 ...
 accounting module, 323 ... memory module, 324 ...
 encryption/decryption module, 325 ... data check module, 331 ...
 decryption unit, 332 ... random number generator unit, 333 ...
 encryption unit, 341 ... mutual authentication module, 342 ...
 decryption module, 344 ... decompression module, 345 ... watermarking
 module, 401 ... receiver, 402 ... HDD, 411 ... SAM, 412 ... external
 storage, 413 ... decompression section, 414 ... communication block,
 415 ... interface, 416 ... display controller, 417 ... input controller,
 421 ... mutual authentication module, 422 ... accounting module, 423 ...
 memory module, 424 ... encryption/decryption module, 425 ... data check
 module, 431 ... decryption unit, 432 ... random number generator unit,
 433 ... encryption unit, 441 ... mutual authentication module, 442 ...
 decryption module, 443 ... decryption module, 444 ... decompression
 module, 445 ... watermarking module.